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PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: GORETTA, et al.  
Title: JOINING OF ADVANCED MATERIALS BY PLASTIC DEFORMATION  
Patent No: 6,974,070 B2  
Issue Date: December 13, 2005  
Serial No: 09/924,571  
Atty Docket: 0003/00950

**Certificate**  
**FEB 01 2006**  
**of Correction**

**CERTIFICATE OF MAILING**

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Heather Cruz-Santiago  
Name of Representative

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**REQUEST FOR A CERTIFICATE OF CORRECTION**  
**Pursuant to 37 CFR 1.322**

Dear Sir or Madam:

The Patent in the above-identified case contains both an omission of words in Claim 3 (e) and a typographical error in Claim 8.

An error is contained in Claim 3 (e) in Column 13 where words have been omitted from the claim which reads:

(e) applying pressure to the solid objects so as to direct the opposing surfaces toward each other, wherein the joint compound is applied to a to a contained in the joint compound, wherein superplastic deformation occurs between the objects and the joint compound.

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However, the claim should read:

(e) applying pressure to the solid objects so as to direct the opposing surfaces toward each other, wherein the joint compound is applied to a thickness that is at least five times the dimension of the largest particles contained in the joint compound, wherein superplastic deformation occurs between the objects and the joint compound.

Also, a typographical error is contained in Column 14, in Claim 8. Specifically, the numbers read 50-80 while the numbers should read 50-60.

A standard Certificate of Correction (one sheet) is enclosed pursuant to 37 C.F.R. §1.322

(a). Also, enclosed is a return-receipt postcard.

It appears the omission of wording in Claim 3 (e) and typographical error in Claim 8 is the fault of the Patent Office. As such, no fee is due herewith. The Office is authorized to deduct any underpayment or credit any overpayment to the undersigned's PTO Deposit Account No. 501709.

Respectfully submitted,  
**CHERSKOV & FLAYNIK**

By:   
Michael J. Cherskov (Reg. No. 33,664)

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO. : 6,974,070 B2  
APPLICATION NO.: 09/924,571  
ISSUE DATE : December 13, 2005  
INVENTOR(S) : Kenneth C. Goretta, Jules L. Routbort, Felipe Gutierrez-Mora

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 3 should be corrected to read as follows:

A method for producing a construct by seamlessly, joining solid objects made up of certain sized particles, the method comprising;

- a) supplying solid objects wherein the solid objects are two-phase bodies and wherein the volume percent of one phase to the other phase varies from 2 to 98;
- b) supplying a joint compound having particle sizes smaller than the certain sized particles;
- c) applying the joint compound to opposing surfaces of the objects to joined together;
- d) heating the joint to a heating temperature of between 1000° C. and 1350° C.; and
- e) applying pressure to the solid objects so as to direct the opposing surfaces toward each other, wherein the joint compound is applied to a thickness that is at least five times the dimension of the largest particles contained in the joint compound, wherein superplastic deformation occurs between the objects and the joint compound.

Claim 8 should be corrected to read as follows:

The method as recited in claim 2 wherein the construct is heated to approximately 50-60 percent of the melting temperature of the lowest melting temperature constituent.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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